ABSTRACT

A sulfoalkylthiophene compound of the following formula [1] and a hydroxyalkylthiophene compound of the following formula [2], from which a useful π -conjugated conductive polymer monomer capable of oxidation polymerization can be provided:

$$\begin{array}{c} \mathsf{CH_2}(\mathsf{CH_2})_\mathsf{n}\mathsf{CH_2}\mathsf{OSO_3R} \\ \\ \mathsf{CH_2}(\mathsf{CH_2})_\mathsf{n}\mathsf{CH_2}\mathsf{OSO_3R} \end{array} \tag{1}$$

(wherein R is a hydrogen atom, an alkali metal atom or an alkaline earth metal atom, and n is an integer of 1 to 3)

$$\begin{array}{c} \text{CH}_2(\text{CH}_2)_n\text{CH}_2\text{OH} \\ \\ \text{CH}_2(\text{CH}_2)_n\text{CH}_2\text{OH} \end{array} \hspace{0.5cm} \begin{bmatrix} 2 \ \end{bmatrix}$$

(wherein n is as defined above).